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seasons, and in addition it was of considerable duration. A stage below 10 feet was recorded on the Cairo guage from Sept. 14 to Dec. 2, with the exception of nine days in November. The low stage continued much later than usual, a consistent rise not beginning until Jan. 18, 1909. At five crossings, less than the depth stipulated for navigation appeared, but the dredges were able to remedy the condition quickly.

The high water of 1909, which came largely from the Ohio basin, was 1.72 feet higher at Cairo than the 1908 flood, but it was of much shorter duration. The river was 29 days above the 40-foot stage at Cairo in 1909, as against 76 days in 1908. At Vicksburg, it was above the 45-foot level 45 days during 1909 and 114 days during 1908. The high water was made dangerous at a few localities by the breaking of severe wind storms during the crest of the flood. The waves thus formed, beating against the levees during a full stage of the river, intensified the wear of the banks.

The Commission reports that the levees are 78.5 per cent. completed and are now protecting 26,569 square miles of territory. The only district completely protected is the Upper Yazoo. The loss of levees during the past year by caving amounted to one and one-fifth per cent. of the entire content now standing. This loss was due to abandonment because of threatened destruction and not to the breaking of the levees. No breaks were recorded.

The report is illustrated by many plates, including the hydrograph for the year. Special mention should be made of the comprehensive hydrograph of the river from 1871 to the present time. The report has an index, a feature which was added for the first time last year. The data of previous reports are rendered almost useless, and especially so because of the arrangement of the material, by the total lack of any guiding words. The introduction of the index is a welcome addition and makes it possible for the student or the lay reader, who is seeking for certain information, which in these reports is generally scattered throughout the volume, to turn quickly to the portions of the report of interest to him.

R. M. BROWN.

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NEW MAPS

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